



State of Illinois

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

MEMORANDUM

DATE: September 24, 2020

TO: Jim Miles, Manager, BOW/DWPC/FOS

FROM: Joseph D. Stitely, P.E., BOW/DWPC/FOS - Marion

SUBJECT: Commonfields of Cahokia Water & Sewer District
September 9, 2020 Collection System Inspection

On September 9, 2020, Sanjay Sofat, Jim Miles, and I conducted a field inspection in the "Ping Pong" area of Centreville. During the inspection, we were accompanied by La Mar Gentry, Centreville Village Administrator, and Corey Allen, Centreville Village Superintendent. The purpose of the visit was to observe the surface drainage area and the sanitary sewer collection system within the "Ping Pong" area of Centreville. During the visit we also observed the lift stations within the area. These include the 82nd **Ex. 7(F)** and the 82nd **Ex. 7(F)** stations. The "Ping Pong" area is within the village boundaries of Centreville, but the sanitary sewers and two lift stations are owned and maintained by Commonfields of Cahokia Water & Sewer District.

Initially, we toured the area to obtain information about the stormwater drainage system within the "Ping Pong" area. Stormwater from this area discharges to Canal 1. We stopped and looked at several locations along the drainage ditch that runs parallel to Bellevue Street. The drainage ditch carries most of the stormwater drainage from the "Ping Pong" area to Canal 1. Corey Allen that cleaning out the ditches within the area is an issue. He indicated that trash and debris are continually being washed into the ditch. The drainage ditch was about four feet wide and about a foot deep in most places. There was some constant stormwater flow in the ditch at the time of our visit. According to Allen, the drainage ditch receives stormwater flow from the Bellevue area. We also observed the conditions of Canal 1 near the location where the drainage ditch discharges into the canal. There was a significant amount of water within the canal with the minimal amount of recent precipitation. However, there was minimal flow of the water in the canal. We drove downstream and observed Canal 1 at the State Route 157 bridge crossing. There was minimal amount of water in the canal at this location.

We stopped at the sewage lift station near the 82nd **Ex. 7(F)**. Walking up to the station, I heard that there was a significant flow discharging into the station's wet well, similar to my last visit to the area. We removed the lid to the wet well and observed that the sewage flowing into the station was clear in color. It was not grey in appearance of domestic raw sewage. We also removed several manhole lids from the sewer main along

Commonfields of Cahokia Water & Sewer District
September 9, 2020 Collection System Inspection
Page 2

Bellevue streets to observe the characteristics of the sewage. There was a constant flow of clear water through the mains. We then walked to the lift station near the intersection of 82nd Ex. 7(F) s. Looking into the into the wet well through the pick hole, sewage was near the top of the well. The station does not have an operable float system to automatically turn on the pump. It must be manually turned on. It did not appear that the pump had been recently turned on at the time of our visit.

We walked from the lift station to Ex. 6 Personal Privacy (PP) 82nd Street to observe the cleanout. At the time of our visit, raw sewage was actively discharging to the roadside ditch from the uncapped lateral cleanout.

We also the stopped at the last manhole before the East St. Louis collection system. The manhole is located behind the Greater Faith Church at 82nd Street & Ridge Avenue. We removed the manhole lid to inspect the manhole. The sewage flowing through the manhole from the Commonfields of Cahokia collection system into the East St. Louis collection system was clear in color.

Based upon the inspection, the following apparent violations are presented:

1. Section 12(a) of the Act, which provides, in part, that no person shall cause, threaten, or allow the discharge of any contaminant into the environment so as to cause or tend to cause water pollution.
2. Section 12(d) of the Act, which provides, in part, that no person shall deposit any contaminants upon the land in such place and manner so as to create a water pollution hazard.
3. Section 12(f) of the Act, which provides, in part, that no person shall cause, threaten, or allow the discharge of a contaminant into the waters of the State from any point source within the State without an NPDES permit for point source discharges.
4. Subtitle C, Section 304.106, provides, in part, that no effluent shall contain settleable solids, floating debris, visible oil, grease, scum or sludge solids. Color, odor and turbidity must be reduced to below obvious levels.
5. Subtitle C, Section 306.102(a), provides, in part, that all treatment works and associated facilities shall be so constructed and operated as to minimize violations of applicable standards during such contingencies as flooding, adverse weather, power failure, equipment failure, or maintenance, through such measures as multiple units, holding tanks, duplicate power sources, or such other measures as may be appropriate.

Commonfields of Cahokia Water & Sewer District
 September 9, 2020 Collection System Inspection
 Page 3

6. Subtitle C, Section 306.303, provides, in part, that excess infiltration into sewers shall be eliminated, and the maximum practicable flow shall be conveyed to treatment facilities.
7. Subtitle C, Section 306.304, provides, in part, that overflows from sanitary sewers are expressly prohibited.
8. Subtitle C, Section 309.102(a), provides, in part, that the discharge of any contaminant or pollutant by any person into the waters of the State from a point source or into a well shall be unlawful.

The following recommendations are offered to assist the facility:

1. Immediately cease all overflows from your sanitary sewer collection system. At the time of the investigation, there was sanitary sewer overflow (SSO) occurring from a lateral cleanout at Ex. 6 Personal Privacy (PP) 82nd Street.
2. Repair or replace all nonfunctioning pumps within the lift station located near the intersections of North 82nd Street Ex. 7(F).
3. Provide an automatic float system within the lift station located near the intersections of North 82nd Street Ex. 7(F).
4. Repair or replace the electronic controls for the lift station located near the intersections of North 82nd Street Ex. 7(F). These controls were in poor condition and appear to have reached the end of their design life.
5. Televiser the section of sewer main from the lift station located near the intersections of North 82nd Street Ex. 7(F) and Ex. 6 Personal Privacy (PP) 82nd Street.
6. Based upon the television data, repair or replace the collapsed section(s) of sewer main from the lift station located near the intersections of North 82nd Street Ex. 7(F) and Ex. 6 Personal Privacy (PP) 82nd Street.
7. Immediately initiate efforts to reduce inflow and infiltration into your wastewater collection system to minimize operation and maintenance problems during periods of significant rainfall. These efforts should include smoke testing of the sewer mains tributary to the North 82nd Street Ex. 7(F) station.
8. Based upon the smoke testing data, conduct point repairs and sewer main replacement of the sewer collection system tributary to the Bellevue lift station.

Commonfields of Cahokia Water & Sewer District
September 9, 2020 Collection System Inspection
Page 4

9. Provide sealed manhole lids or elevate manholes in low lying areas to minimize stormwater inflow into the sewer collection system.

JDS:Commonfields Memo 090920/09-24-20

cc: BOW/DWPC/FOS-Collinsville
BOW/DWPC/RU